

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) An image sensing and printing digital camera device comprising:
  - a housing defining a slot for receiving a printed instruction card having printed thereon an array of dots representing a programming script;
  - an area image sensor positioned on the housing for sensing a viewed image ~~to be printed on media~~ and for generating pixel data representing the viewed image;
  - a linear image sensor for scanning the printed instruction card and converting the array of dots into a data signal;
  - a printing mechanism arranged on the housing; ~~and~~
  - a one-chip microcontroller provided in the housing, the one-chip microcontroller integrating on the one chip a VLIW processor, an area image sensor interface connected to the VLIW processor, a linear image sensor interface, and a printhead interface connected to the VLIW processor; and
  - an input buffer connected to both the area image sensor interface and the linear image sensor interface, the input buffer receiving the pixel data and the data signal, the input buffer being further connected to the VLIW processor to effect communication of the pixel data and the data signal thereto, wherein
  - ~~the one-chip microcontroller further includes a input buffer to which both the area image sensor interface and the linear image sensor interface are connected, the input buffer effecting communication between the VLIW processor and the area and linear image sensor interfaces~~
  - the one-chip microcontroller decodes the data signal into the programming script and executes the programming script represented by the array of dots on the pixel data.
2. (Previously Presented) A device as claimed in claim 1, wherein the area image sensor is one of a charge coupled device and an active pixel sensor.
3. (Previously Presented) A device as claimed in claim 1, wherein the printing mechanism includes an ink distribution assembly that is mounted on the printhead assembly to distribute ink to the printhead chips.
4. - 6. (Cancelled)

7. (Currently Amended) A device as claimed in claim 1, wherein the linear image sensor is an optical reader, ~~for reading a two-dimensional pattern printed on the printed instruction card, the two-dimensional pattern representing a program in an image processing language and the array of dots is a two-dimensional array, the linear image sensor being configured to generate program data and the linear image sensor interface being configured to receive the program data and write the program data to a memory of the one-chip microcontroller.~~

8. (Currently Amended) A device as claimed in claim 7, wherein the one-chip microcontroller includes a program memory, and the one-chip microcontroller is operable to write the program ~~data~~ script to the program memory and further operable to run the program script from the program memory to define a software algorithm by which registers in the printhead interface are addressed to apply a desired effect to the ~~print image pixel~~ data.

9. (Previously Presented) A device as claimed in claim 1, wherein the one-chip microcontroller further includes an output buffer, the output buffer effecting communication between the VLIW processor and the printhead interface.

10. (Previously Presented) A device as claimed in claim 8, wherein the VLIW processor receives pixel data from the image sensor, converts the pixel data into an internal format, and writes the converted pixel data to the DRAM memory interface.

11. (Previously Presented) A device as claimed in claim 9, wherein the VLIW processor converts the pixel data to print image data, and writes the print image data to the output buffer.